

FIG.1

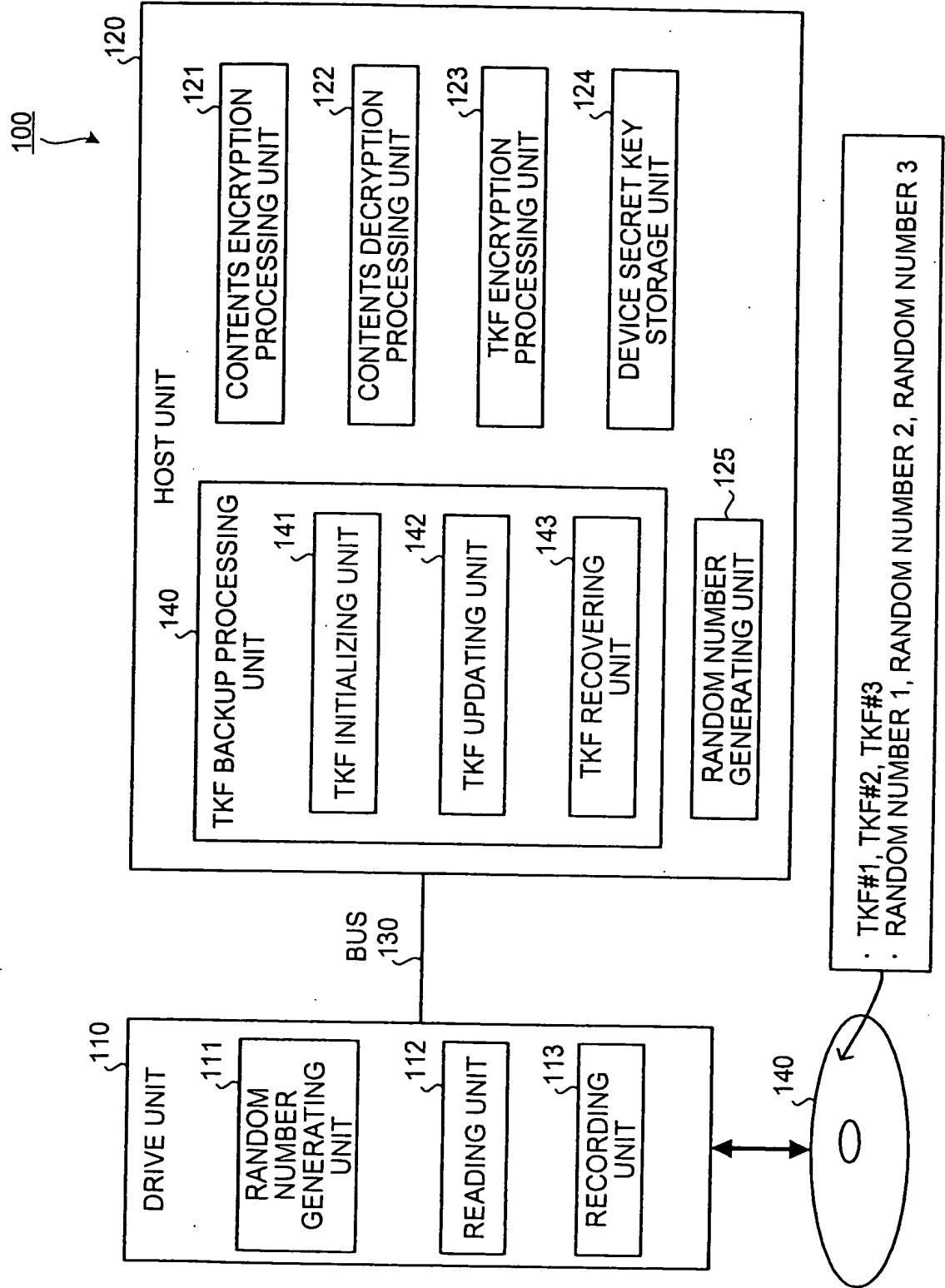


FIG.2

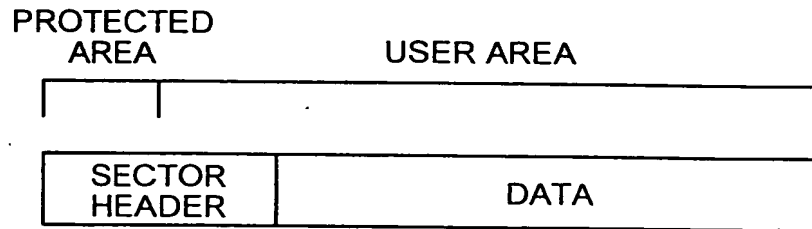


FIG.3

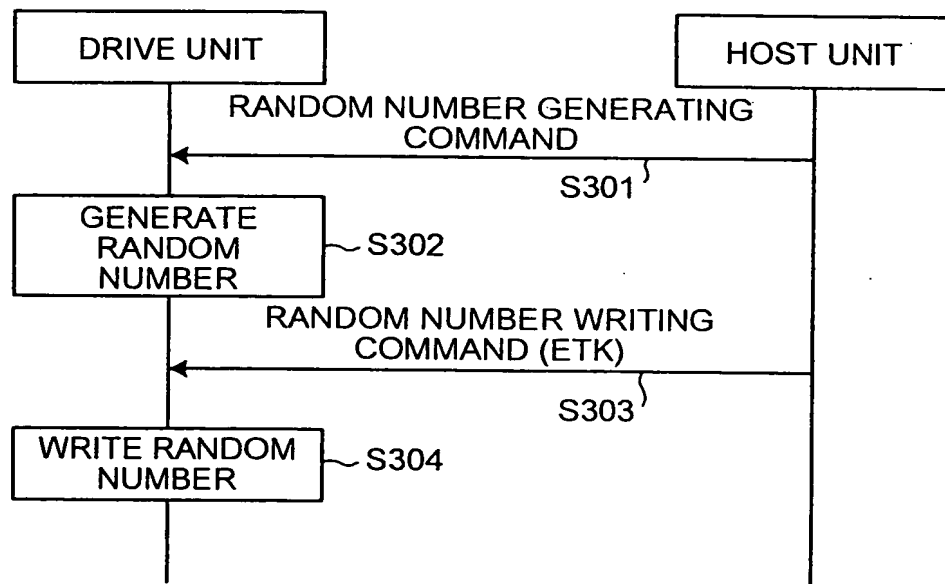
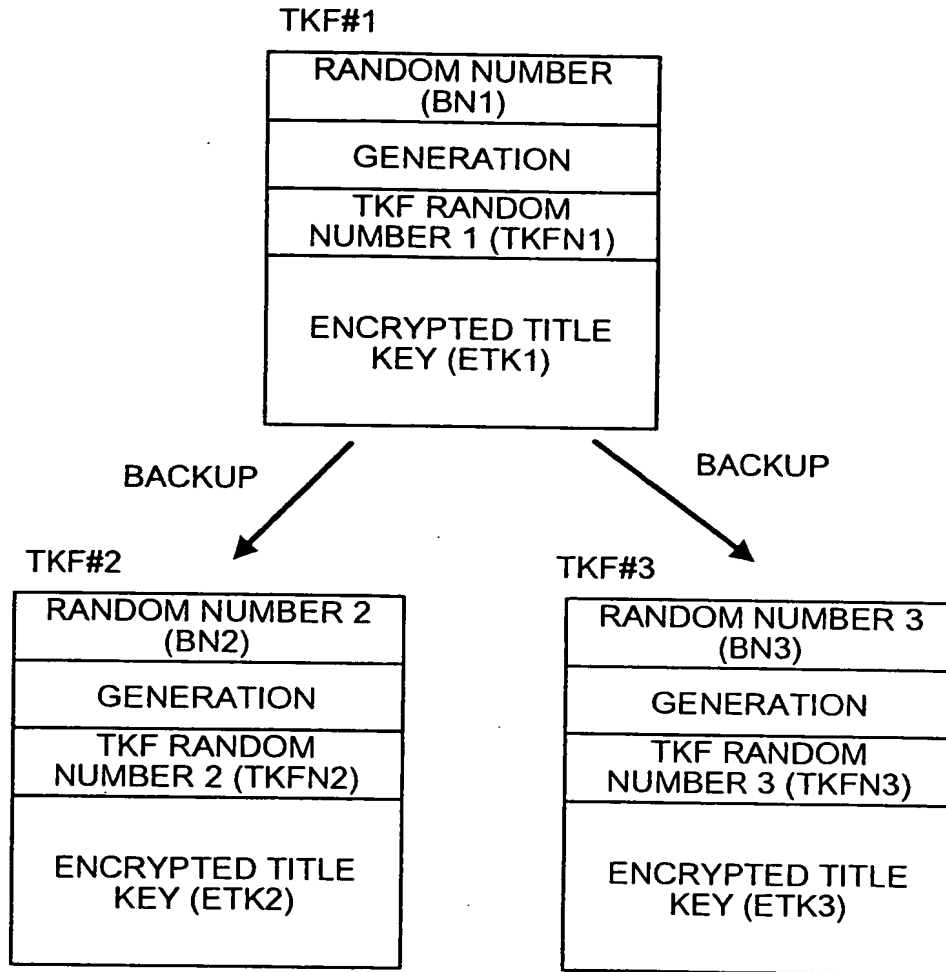


FIG.4A



$$\begin{aligned} \text{ETK1} &= f(\text{TK}, \text{BN1}, \text{TKFN3}) \\ \text{ETK2} &= f(\text{TK}, \text{BN2}, \text{TKFN1}) \\ \text{ETK3} &= f(\text{TK}, \text{BN3}, \text{TKFN2}) \end{aligned}$$

FIG.4B

ETK1 TO ETK3

ENCRYPTED TITLE KEY 1
ENCRYPTED TITLE KEY 2
ENCRYPTED TITLE KEY 3
⋮
ENCRYPTED TITLE KEY n

FIG.5

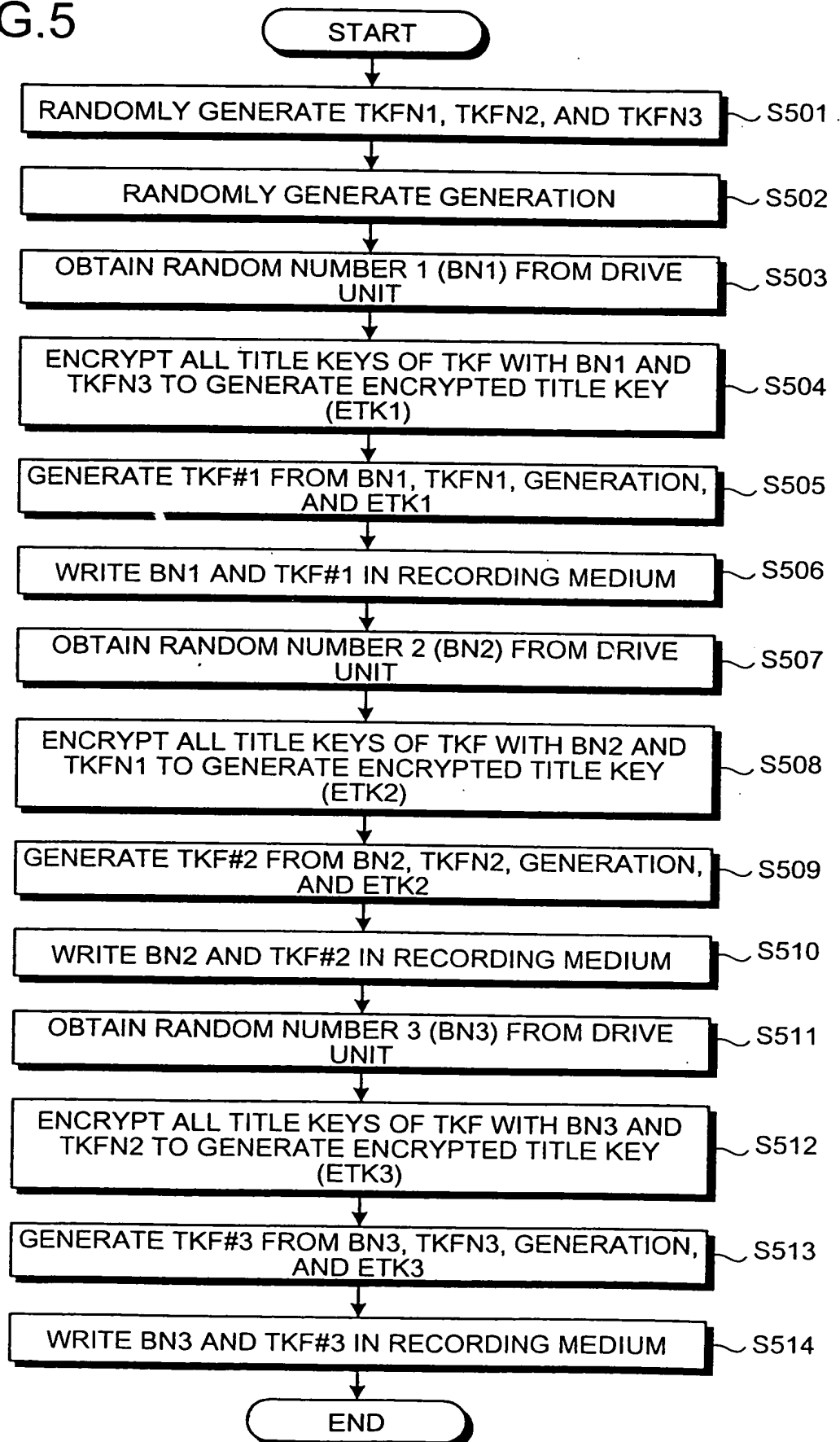


FIG. 6A

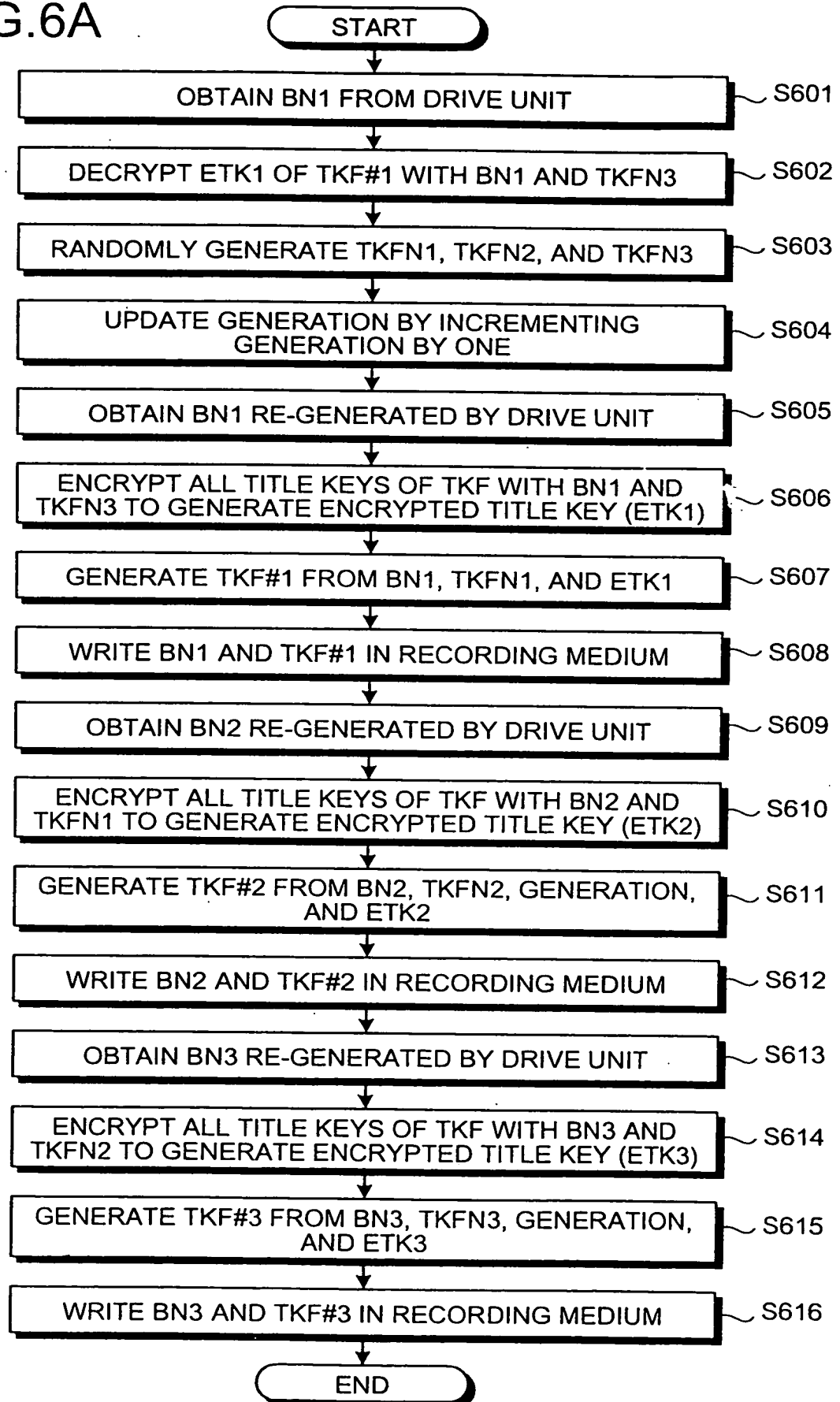


FIG.6B

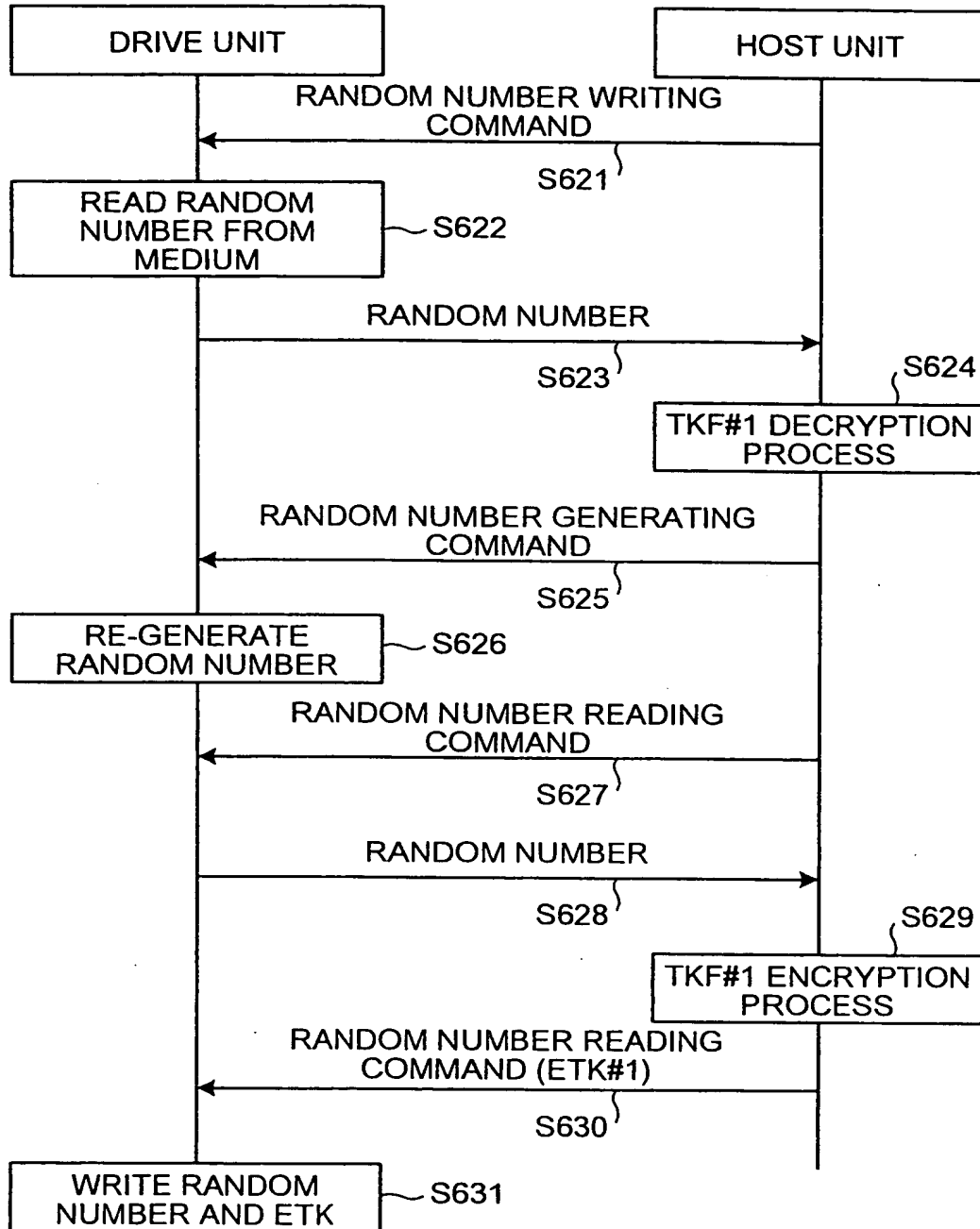


FIG.7

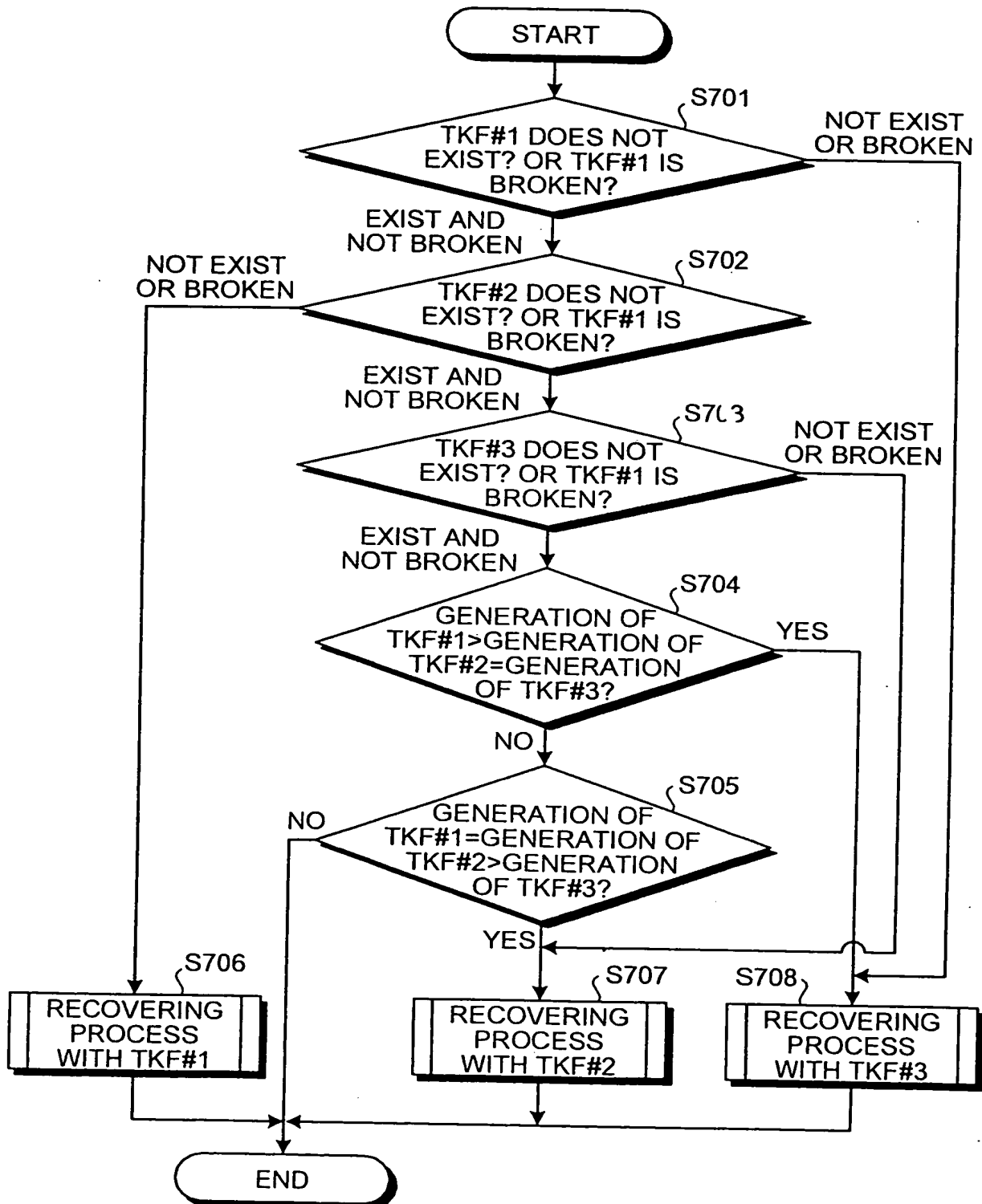


FIG.8

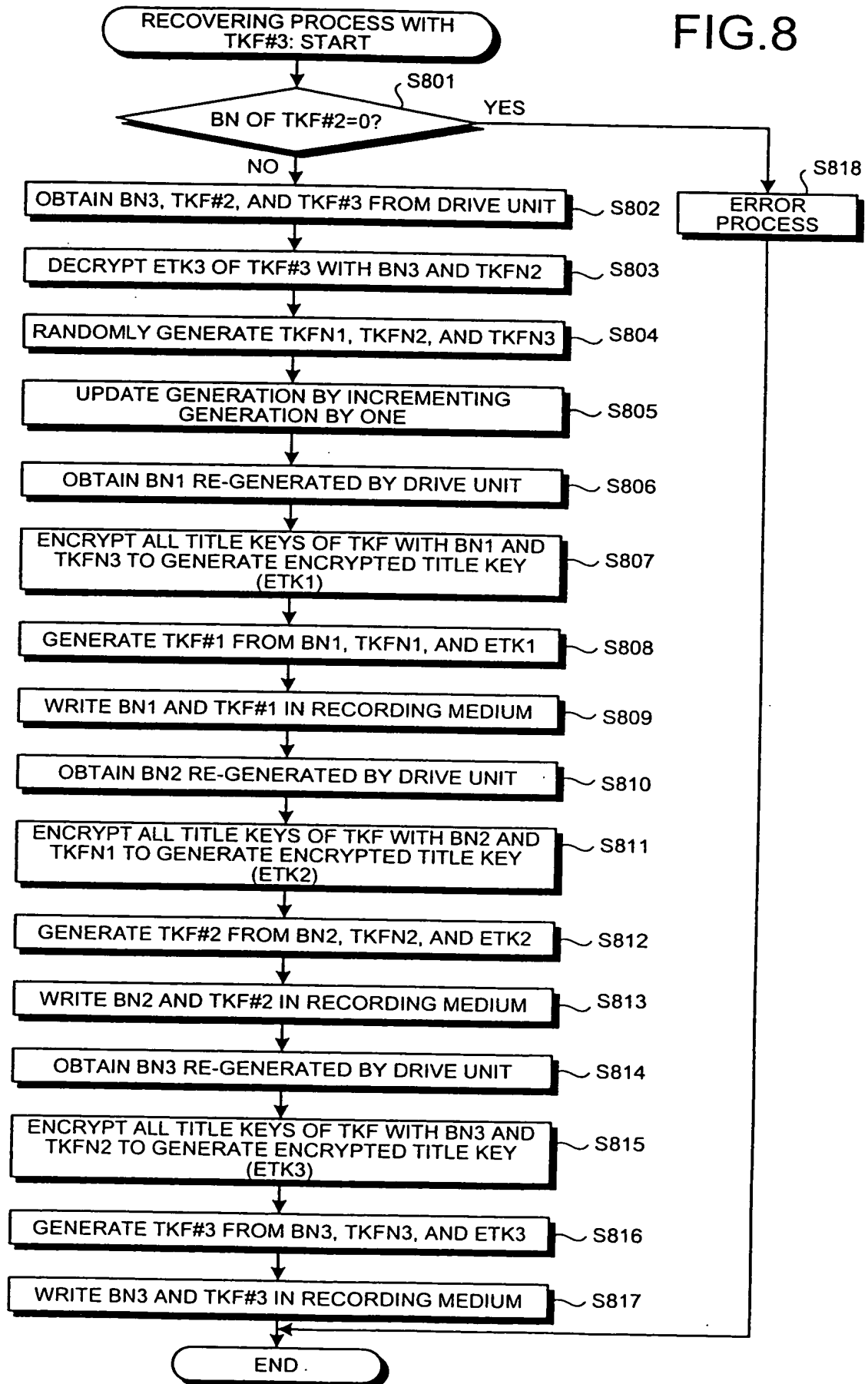


FIG.9

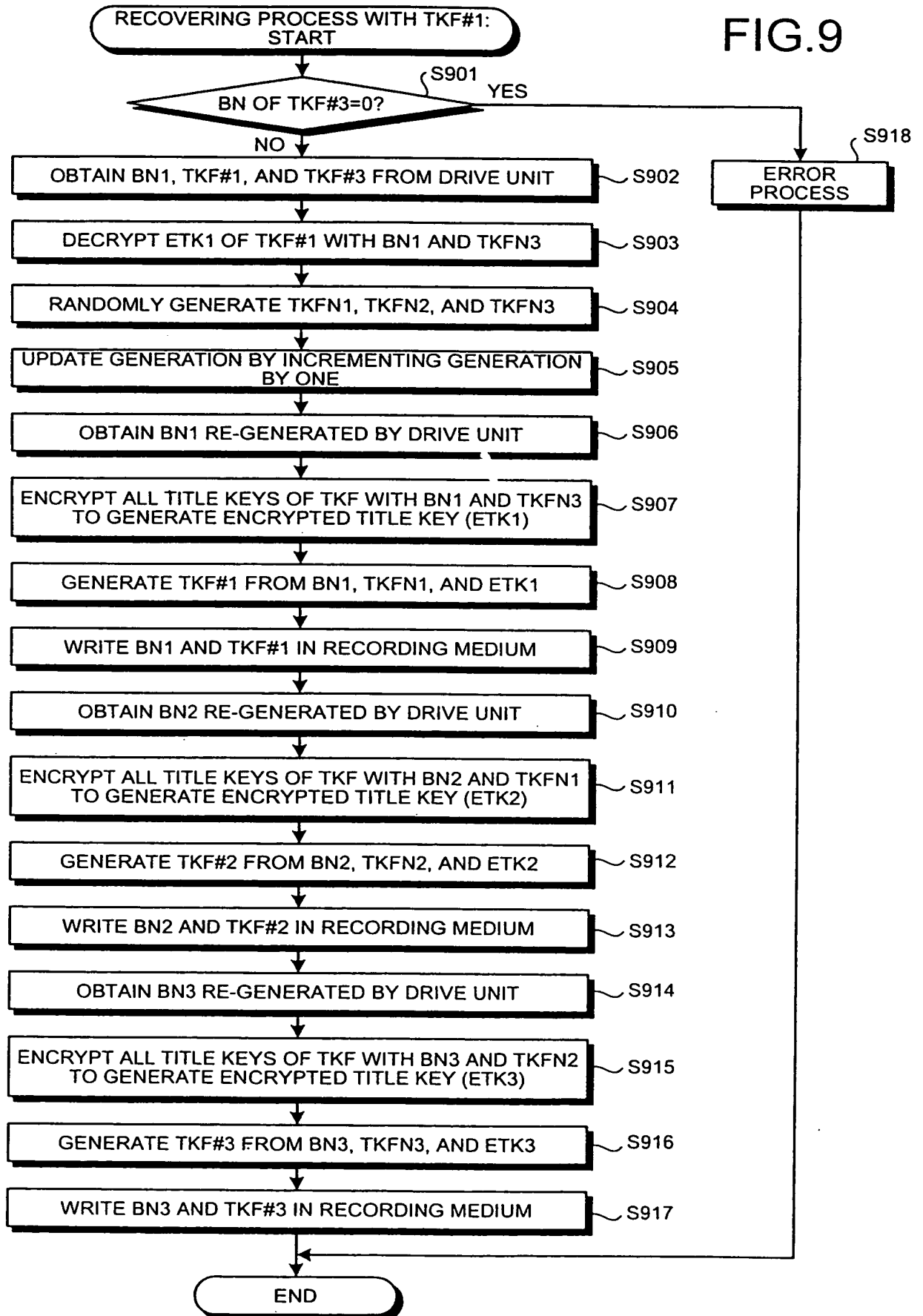


FIG.10

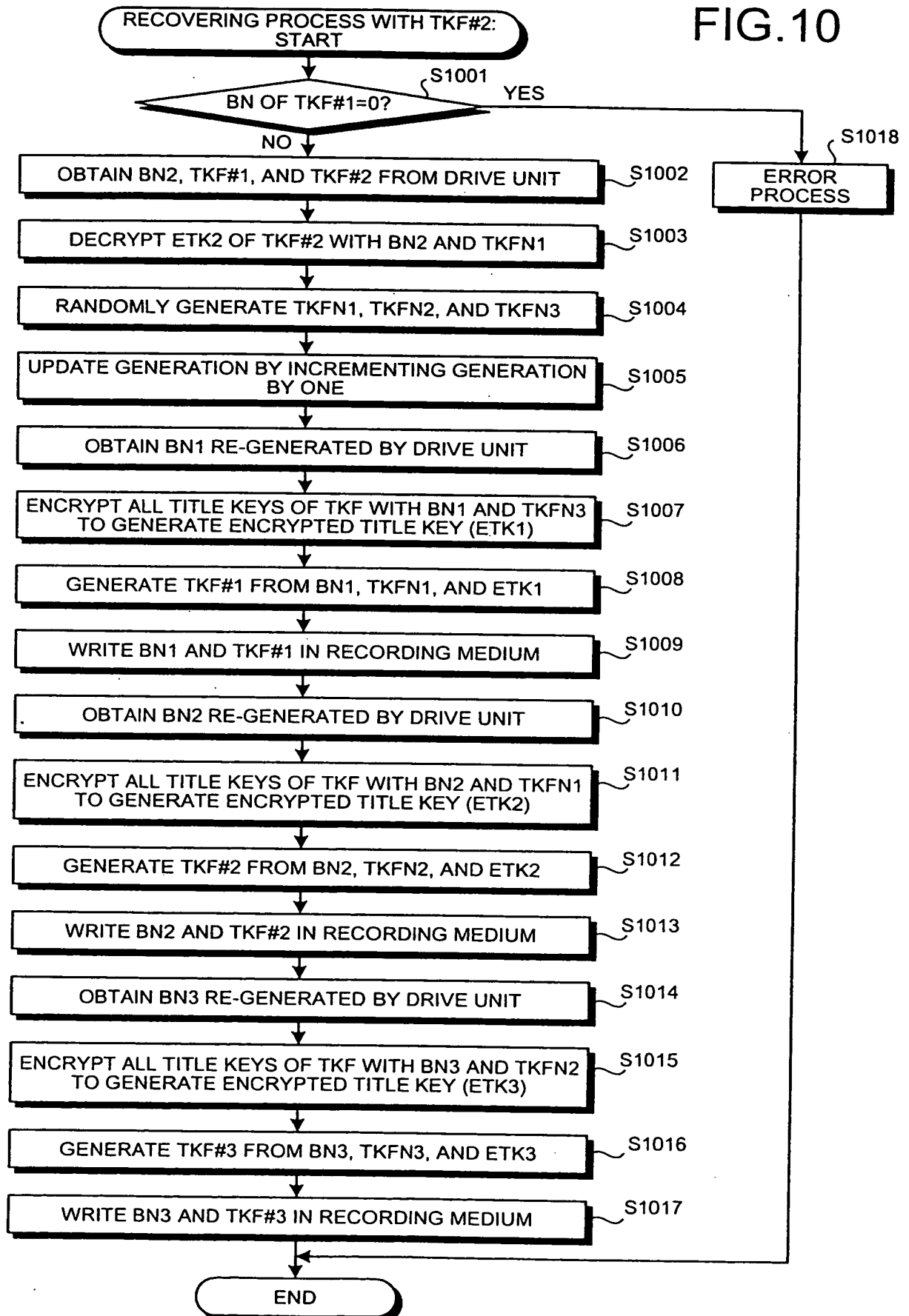


FIG.11

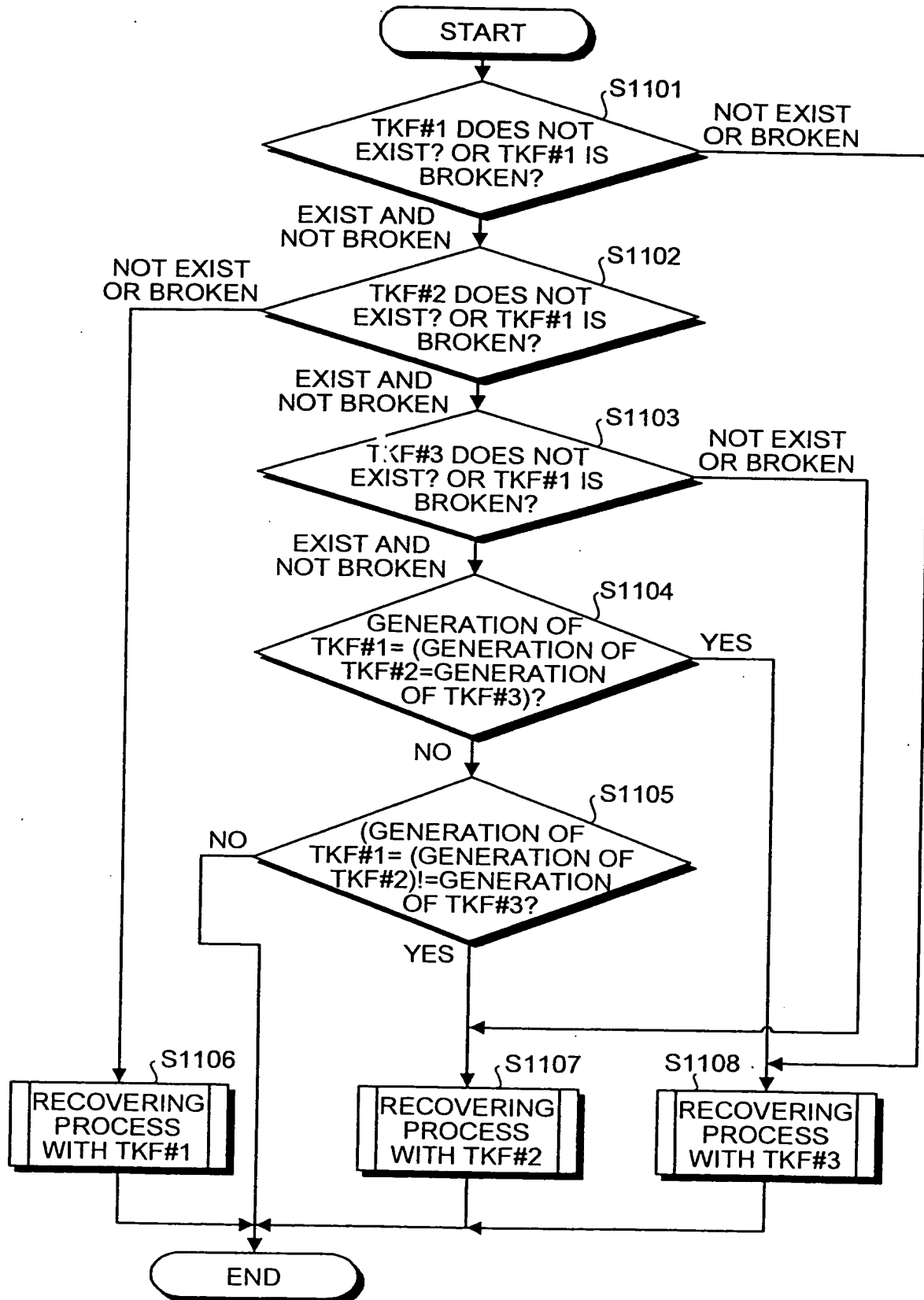


FIG.12

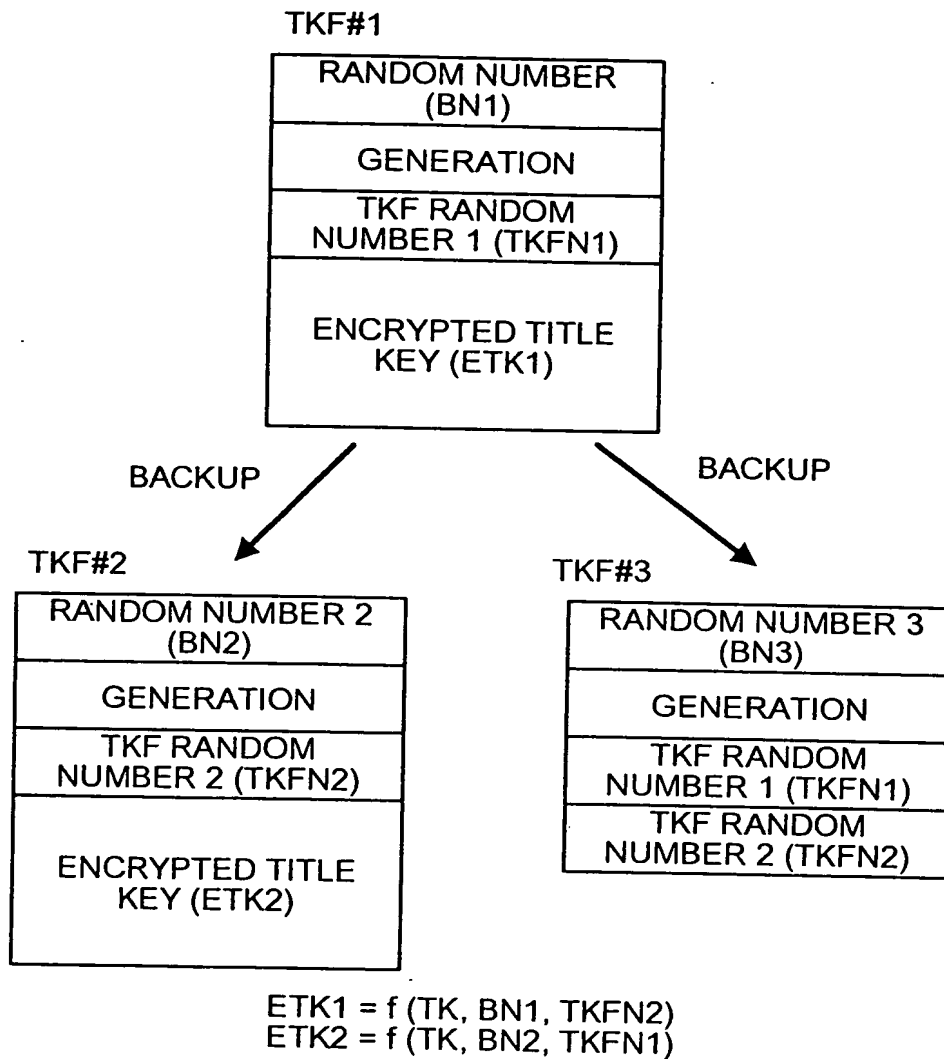


FIG.13

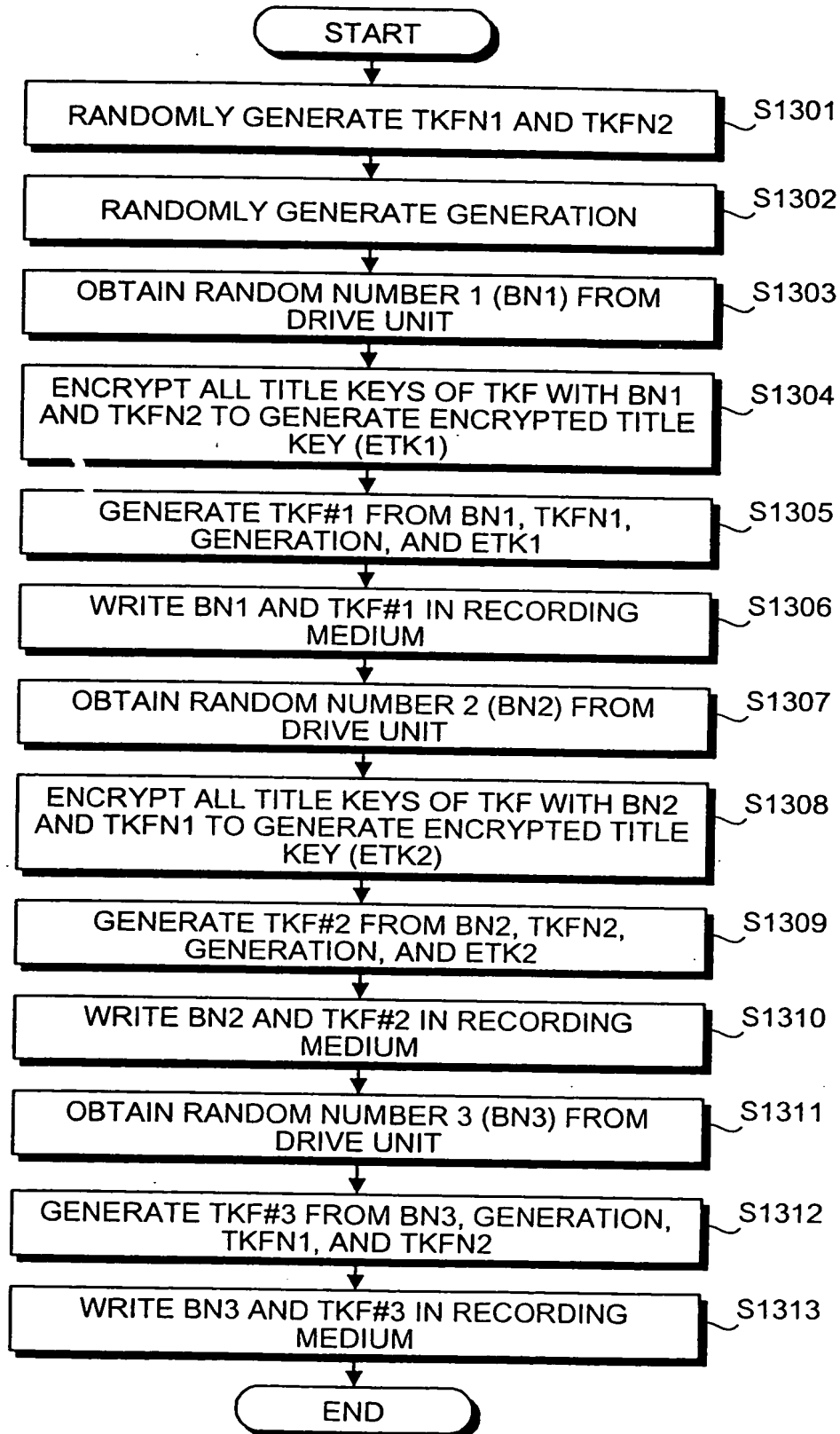


FIG.14

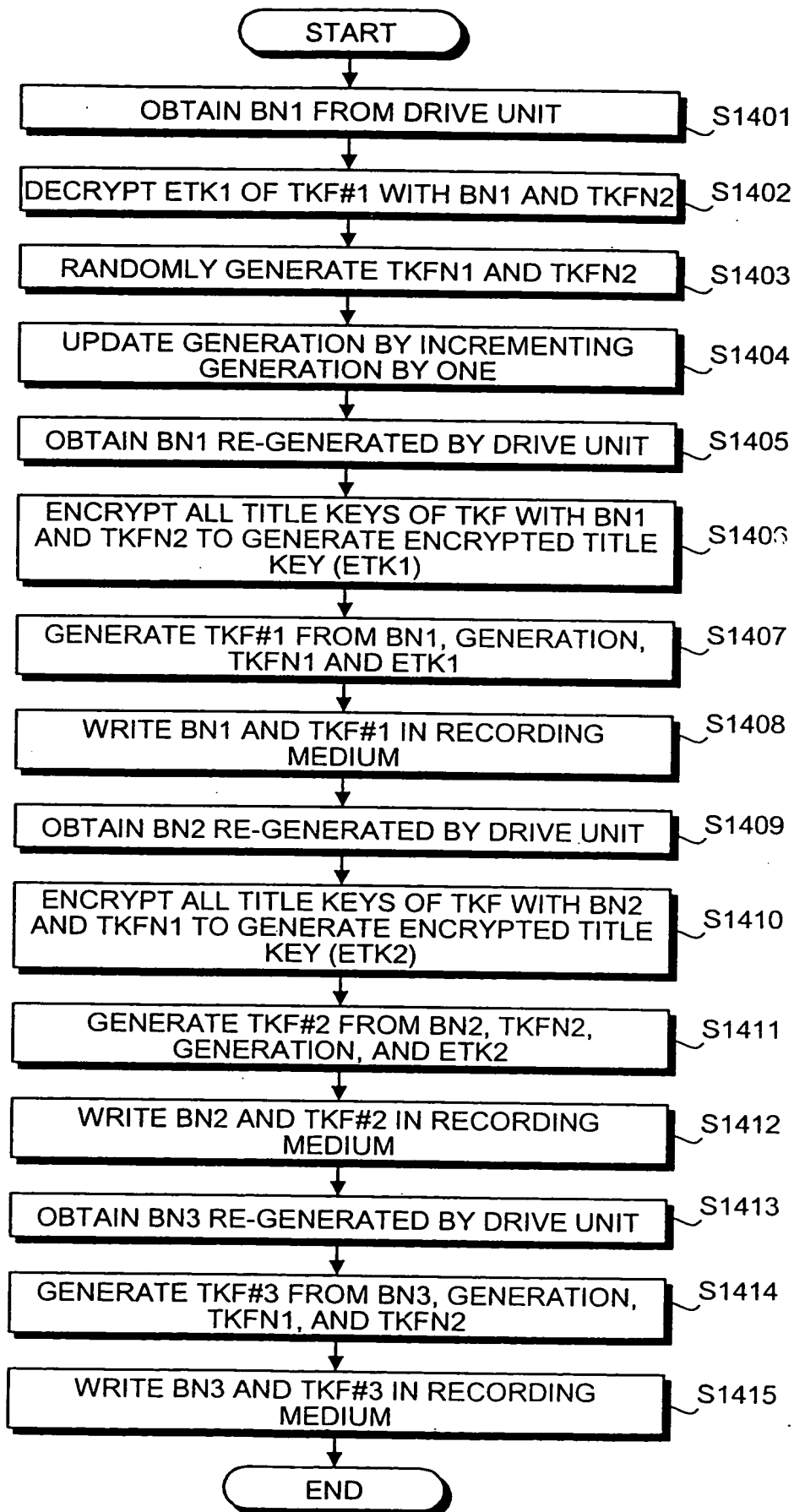


FIG.15

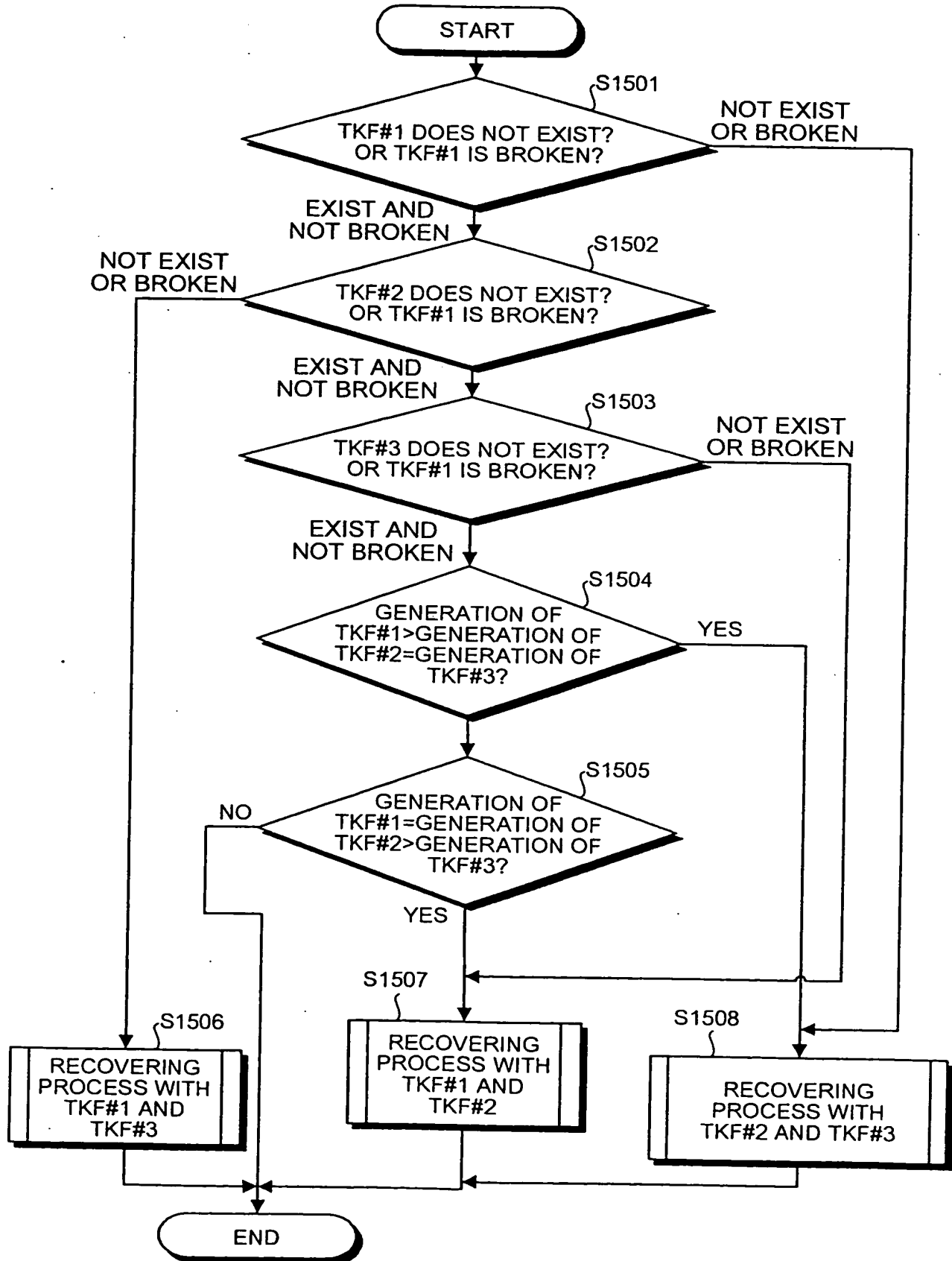


FIG.16

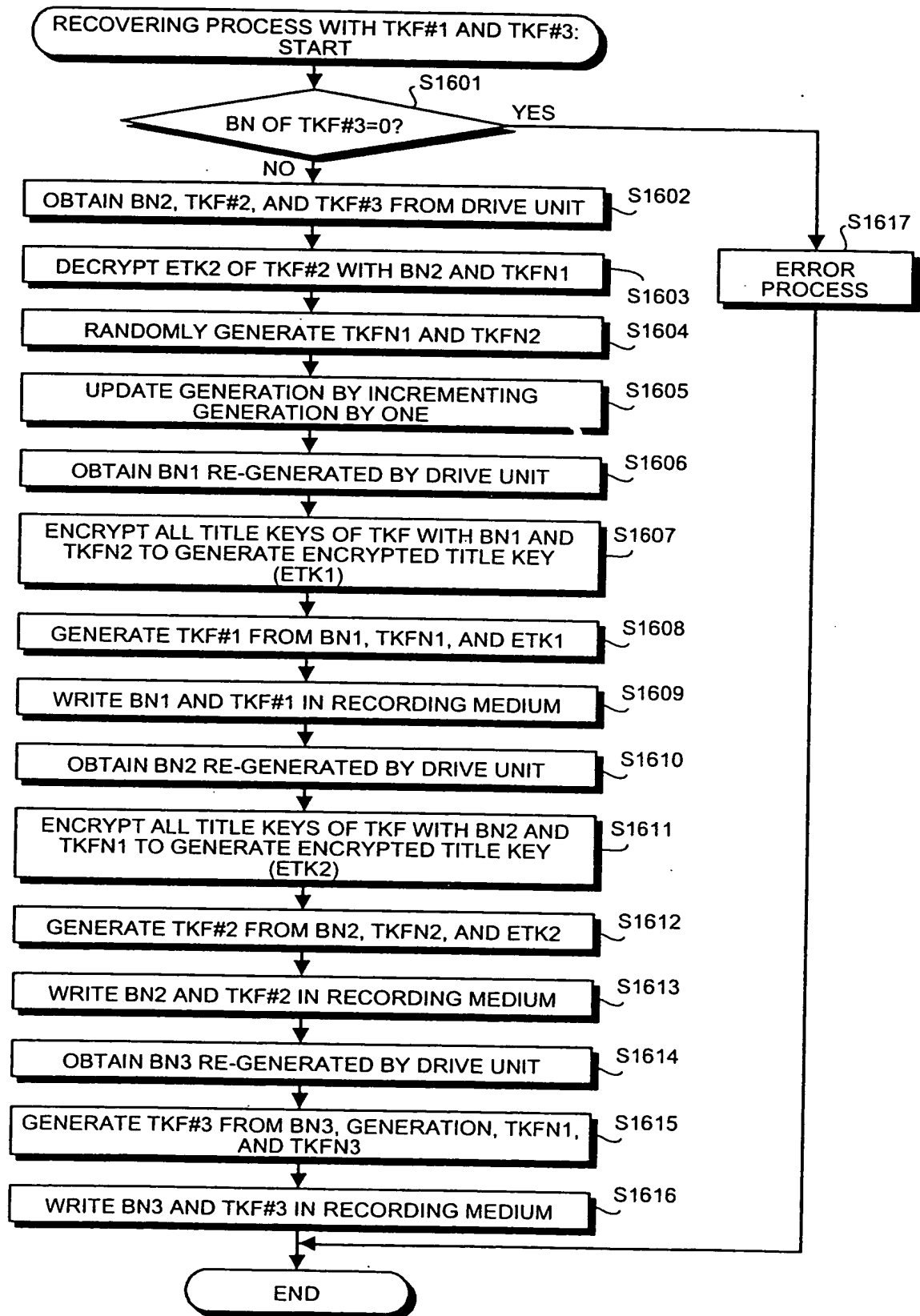


FIG.17

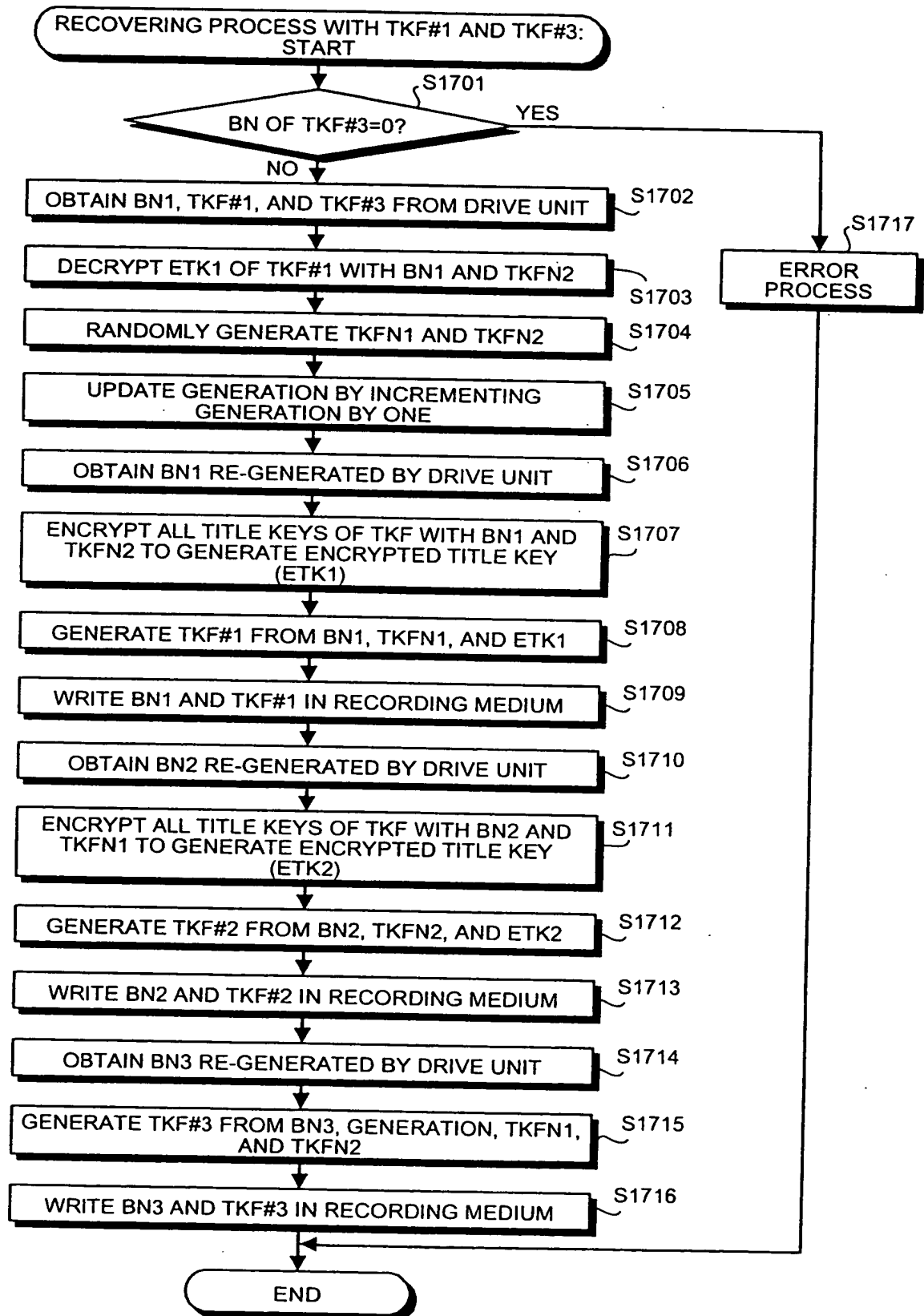


FIG.18

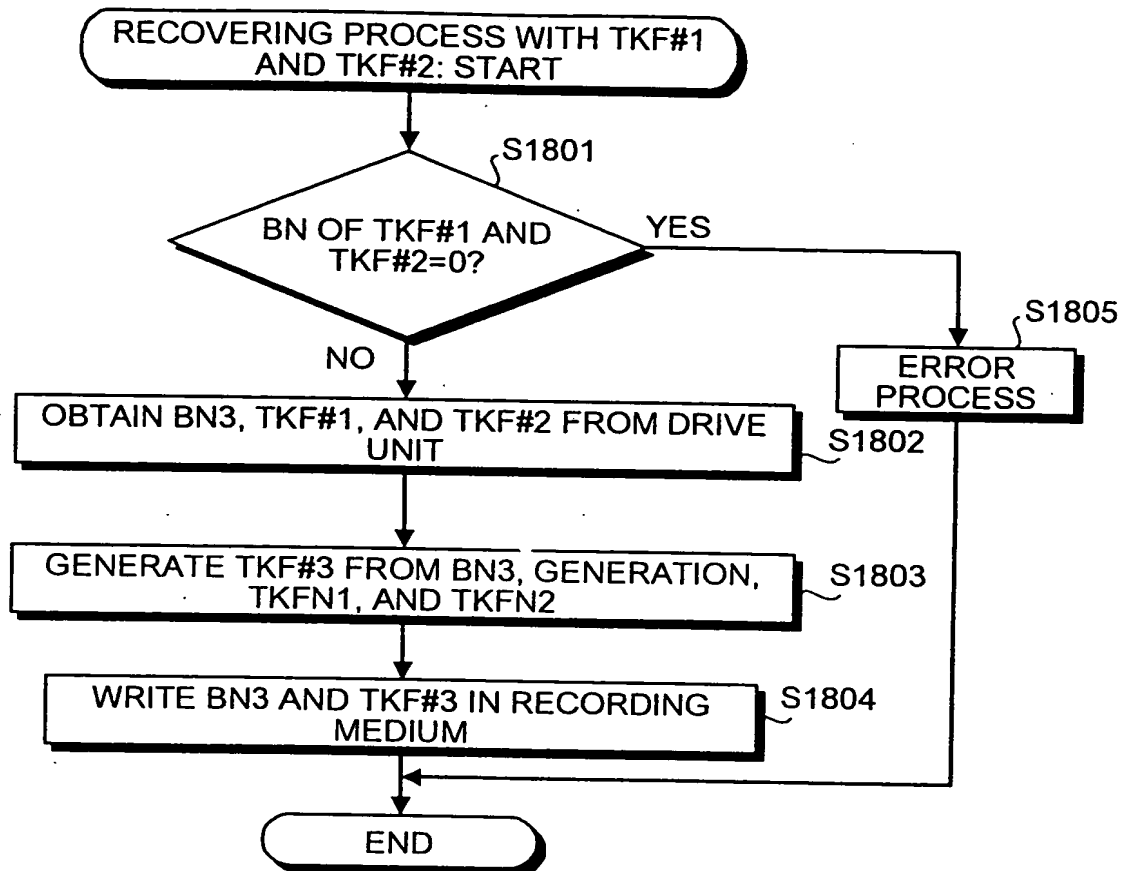


FIG.19

1900

